

## Amendments to the Claims

1-3. (Canceled)

4. (Currently Amended) The monitor protein of claim ~~3~~ 13, wherein the ~~variable property~~  
~~region comprises RSGFP and BSGFP green fluorescent proteins (GFP)~~ pair of fluorescent  
proteins is a red-shifted green fluorescent protein (RSGFP) and a blue-shifted green fluorescent  
protein (BSGFP) of *Aequorea victoria*.

5. (Currently Amended) The monitor protein of ~~any one of claims 1 to 2~~ claim 13, wherein the  
phosphorylation region comprises the amino acid sequence of SEQ ID NO:1.

6. (Withdrawn) A nucleic acid encoding the monitor protein of any one of claims 1 to 2.

7. (Withdrawn) An expression vector carrying the nucleic acid of claim 6.

8. (Withdrawn) A method for making a cell in which phosphorylation ability can be measured  
comprising:

introducing the monitor protein of any one of claims 1 to 2, a nucleic acid encoding said  
monitor protein, or an expression vector carrying said nucleic acid into the cell.

9. (Currently Amended) A method for measuring phosphorylation ability of a test protein, the  
method ~~comprising~~ comprises reacting the test protein with the monitor protein of ~~any one of~~  
~~claims 1 to 2~~ claim 13, and measuring ~~a property change~~ fluorescence of the monitor protein.

10. (Withdrawn) A method for screening a kinase, the method comprising:

- (a) reacting a test protein with the monitor protein of any one of claims 1 to 2,
- (b) measuring the property change of the monitor protein, and
- (c) selecting the test protein which alters the property of the monitor protein as a kinase.

11. (Withdrawn) A method for screening a compound which stimulates or inhibits phosphorylation, the method comprising:

(a) contacting, in the presence of a test sample, a kinase with the monitor protein of any one of claims 1 to 2, the monitor protein comprising a phosphorylation region to be phosphorylated by the kinase,

(b) measuring the property change of the monitor protein, and

(c) selecting a compound which stimulates or inhibits the property change in comparison with the property change in the absence of the test sample.

12. (Withdrawn) A method for screening a compound which stimulates or inhibits phosphorylation, the method comprising:

(a) introducing the expression vector of claim 7 into a cell,

(b) measuring, in the presence of a test sample, the property change of a monitor protein expressed in the cell, and

(c) selecting a compound which stimulates or inhibits the property change in comparison with the property change in the absence of the test sample.

13. (New) A monitor protein for measuring protein phosphorylation, wherein the monitor protein comprises (a) a phosphorylation region and (b) a pair of fluorescent proteins, wherein a fluorescent protein of the pair is bound to each opposite end of the phosphorylation region, and wherein phosphorylation of the phosphorylation region causes a change of fluorescence of the monitor protein.